

CLAIMS

What is claimed is:

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1. A personal care product comprising a biodegradable film, wherein the biodegradable film comprises:
a biodegradable polymer; and
a water soluble polymer, wherein the film has a water vapor transmission rate of greater than about 2500 g/m²/24hrs.

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2. The personal care product of Claim 1, wherein the biodegradable film has a water vapor transmission rate of greater than about 3000 g/m²/24hrs.

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3. The personal care product of Claim 1, wherein the biodegradable film has a water vapor transmission rate of greater than about 3500 g/m²/24hrs.

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4. The personal care product of Claim 1, wherein the biodegradable polymer is an aliphatic polyester.

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5. The personal care product of Claim 1, wherein the biodegradable polymer is selected from the group consisting of polycaprolactone, polybutylene succinate, poly(butylene succinate-adipate), polylactic acid, a terpolymer of terephthalic acid, adipic acid, and 1,4-butanediol, and copolymers and mixtures thereof.

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6. The personal care product of Claim 1, wherein the water soluble polymer is selected from the group consisting of polyethylene oxide, polyethylene glycol, polyvinyl alcohol, and copolymers and mixtures thereof.

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7. The personal care product of Claim 1, wherein the water soluble polymer is polyethylene oxide, polyethylene glycol, or a copolymer thereof.

8. The personal care product of Claim 1, wherein the biodegradable film has an elongation at break of greater than about 100%.

5 9. The personal care product of Claim 1, wherein the biodegradable film has an elongation at break of greater than about 200%.

10 10. The personal care product of Claim 1, wherein the biodegradable film includes from about 1% to about 50% water soluble polymer by weight of the film.

15 11. The personal care product of Claim 1, wherein the biodegradable film includes from about 5% to about 30% water soluble polymer by weight of the film.

20 12. The personal care product of Claim 1, wherein the biodegradable film includes from about 50% to about 99% biodegradable polymer by weight of the film.

25 13. The personal care product of Claim 1, wherein the biodegradable film includes from about 70% to about 95% biodegradable polymer by weight of the film.

30 14. The personal care product of Claim 1, wherein the biodegradable film has a thickness of from about 0.01 to about 5 mils.

35 15. The personal care product of Claim 1, wherein the biodegradable film has a thickness of from about 0.01 to about 5 mils.

16. The personal care product of Claim 1, wherein the biodegradable film is laminated to a nonwoven web.

35 17. The personal care product of Claim 1, wherein the product is a diaper, training pant, feminine pad, panty liner, incontinence product, wound dressing or delivery system.

18. The personal care product of Claim 1, wherein the product is disposable.